

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 29/2024
ISSUE NO. 29/2024

शुक्रवार
FRIDAY

दिनांक: 19/07/2024
DATE: 19/07/2024

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : AI CRIME CLASSIFIER

(51) International classification :G06N0020000000, G06Q0010060000, G06N0005000000, G06N0005020000, G06N0005040000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)DR. UDDANTI MOHAN SRINIVAS
Address of Applicant :Computer Science and Engineering(AIML) Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajigiri-500100. State:Telangana Email ID & Contact Number:umohansrinivas@gmail.com & 9052760536 Secunderabad -----
2)Malla Reddy Engineering College
3)DR. KAVITHA NALLAMOTHU
4)BHARGAVI MANCHIKALAPUDI
5)G. SUNIL KUMAR
6)PEDAPALLY HEMA
7)SWETHA VELMAREDDY
8)K Anusha
9): KANCHARAKUNTLA SHIRISHA
10)SAMBARI CHAITANYA
11)NALLURI VENKATA MADHU BINDU
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)DR. UDDANTI MOHAN SRINIVAS
Address of Applicant :Computer Science and Engineering(AIML) Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajigiri-500100. State:Telangana Email ID & Contact Number:umohansrinivas@gmail.com & 9052760536 Secunderabad -----
2)Malla Reddy Engineering College
Address of Applicant :Malla Reddy Engineering College Dhulapally post via Kompally Maisammaguda Secunderabad -500100 Secunderabad -----
3)DR. KAVITHA NALLAMOTHU
Address of Applicant :Associate Professor Computer Science and Engineering Dept., Narasimha Reddy Engineering College, Maisammaguda, Mechal-Malkajigiri-500100. State:Telangana Email ID & Contact Number: kavitha.chundi@gmail.com & 9703966992 Secunderabad -----
4)BHARGAVI MANCHIKALAPUDI
Address of Applicant :Assistant Professor Computer Science and Engineering (AIML) Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajigiri-500100. State:Telangana Email ID & Contact Number: bhargavimanchikalapudi@gmail.com, 7032582667 Secunderabad -----
5)G. SUNIL KUMAR
Address of Applicant :Assistant Professor Computer Science and Engineering Dept., Narasimha Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajigiri-500100. State:Telangana Email ID & Contact Number: gsunil04@gmail.com & 9985269922 Secunderabad -----
6)PEDAPALLY HEMA
Address of Applicant :Assistant Professor Computer Science and Engineering (AIML) Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajigiri-500100. State:Telangana Email ID & Contact Number: hemaparre69@gmail.com & 9491015472 Secunderabad -----
7)SWETHA VELMAREDDY
Address of Applicant :Assistant Professor Computer Science and Engineering (AIML) Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajigiri-500100. State:Telangana Email ID & Contact Number: swethareddy.velma@gmail.com, 9177734197 Secunderabad -----
8)K Anusha
Address of Applicant :Assistant Professor Computer Science and Engineering Dept., Narasimha Reddy Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajigiri-500100. State: Telangana Email ID & Contact Number: anushagsk@gmail.com & 9160049972 Secunderabad -----
9): KANCHARAKUNTLA SHIRISHA
Address of Applicant :Assistant Professor Computer Science and Engineering (AIML) Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajigiri-500100. State: Telangana Email ID & Contact Number: shirishareddy8374@gmail.com & 8374744906 Secunderabad -----
10)SAMBARI CHAITANYA
Address of Applicant :Assistant Professor Computer Science and Engineering (AIML) Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajigiri-500100. State: Telangana Email ID & Contact Number: schaitanya92@gmail.com & 9912214351 Secunderabad -----
11)NALLURI VENKATA MADHU BINDU
Address of Applicant :Computer Science and Engineering (AIML) Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajigiri-500100. State: Telangana Email ID & Contact Number: svmadhu.sms@gmail.com & 9494511759 Secunderabad -----

(57) Abstract :
ABSTRACT The capabilities of Artificial Intelligence (AI) evolve rapidly and affect almost all sectors of society. AI has been increasingly integrated into criminal and harmful activities, expanding existing vulnerabilities, and introducing new threats. This article reviews the relevant literature, reports, and representative incidents which allows to construct a typology of the malicious use and abuse of systems with AI capabilities. The main objective is to clarify the types of activities and corresponding risks. Our starting point is to identify the vulnerabilities of AI models and outline how malicious actors can abuse them. Subsequently, we explore AI-enabled and AI-enhanced attacks. While we present a comprehensive overview, we do not aim for a conclusive and exhaustive classification. Rather, we provide an overview of the risks of enhanced AI application, that contributes to the growing body of knowledge on the issue. Specifically, we suggest four types of malicious abuse of AI (integrity attacks, unintended AI outcomes, algorithmic trading, and membership inference attacks) and four types of malicious use of AI (social engineering, misinformation/fake news, Hacking, autonomous weapon systems). Mapping these threats enables advanced reflection of governance strategies, policies, and activities that can be developed or improved to minimize risks and avoid harmful consequences. Enhanced collaboration among governments, industries, and civil society actors is vital to increase preparedness and resilience against malicious use and abuse of AI. Machine learning is an important component of the growing field of data science. Through the use of statistical methods, different type of algorithms is trained to make classifications or predictions, and to uncover key insights in this project. These insights subsequently drive decision making within applications and businesses, ideally impacting key growth metrics. Machine learning algorithms build a model based on this project data, known as training data, in order to make predictions or decisions without being explicitlyprogrammed to do so. Machine learning algorithms are used in a wide variety of datasets, where it is difficult or unfeasible to develop conventional algorithms to perform the needed tasks.

No. of Pages : 4 No. of Claims : 4